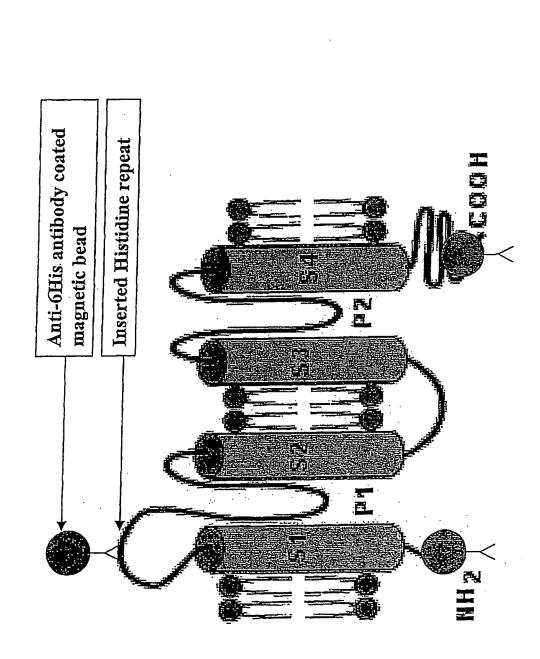


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FREK-1 channel structure



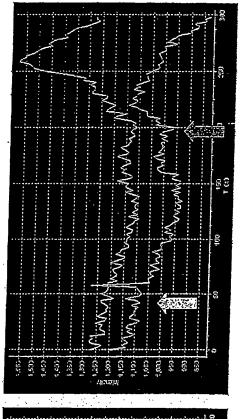
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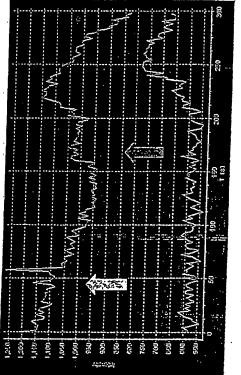
Figure 2: Magnetic activation of Trek-1 monitored via downstream changes in intracellular calcium

lines indicate the cells with magnetic particles attached. Green and White lines indicate • COS-7 cells cotransfected with 'Flash' pericam and 12His. Trek-1 – Red and yellow the cells without magnetic particles attached.

•Magnetic field applied for 1 sec - yellow arrow.

•Application of 100uM Riluzole to the culture media – red arrow





transient rise in intracellular calcium in HEK293 T cells Figure 3: Magnetic activation of TREK-1 induces co-transfected with and Flashpericam

